

LPC# 199 801 0003 Madison County

Chemetco - Hartford

ILD 048 843 809

SF/HRS

Waste Samples

Volume I

EPA Region 5 Records Ctr.



347277

Analytical Results



Prepared by:
Office of Site Evaluation
Division of Remediation Management
Bureau of Land

DATE: July 7, 2008

IEPA
Attn: Mr. Mark Wagner
1001 North Grand Avenue East
P.O. Box 19276
Springfield, IL 62794-9276

SITE NAME: Chemetco (IL)

Case	Lab	Samples	SDG	Matrix
37448	Data Chem	9	ME00E9	soil

Upon receipt of data, please check each package for completeness and note any missing deliverables below.

Send this form back to Sylvia Griffin, Data Management Coordinator after filling in the blanks below.

Data Received by: _____ Date: _____

PROBLEMS:

Please indicate if data is complete, and note if there are any deliverables missing from the cases noted above.

Received by Data Management Coordinator, CRL for file.

Signature: _____ Date: _____

FROM: **U.S. EPA - Region 5**
Sylvia Griffin
Central Regional Laboratory
536 S. Clark, 10th Floor
Chicago, IL 60605

Sent By: Pat Johnson
Data Coordinator
ESAT Region 5 **TechLaw**

Controlled Document

ESAT5.15.00033

Regional Transmittal Form

act
7-7-08

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION V

DATE: 6/6/08

SUBJECT: Review of Data
Received for review on 5/30/08

FROM: Stephen L. Ostrodka, Chief (SRT-4J)
Superfund Field Services Section

TO: Data User: IEPA

We have reviewed the data by CADRE for the following case:

SITE NAME: Chemetco (IL)

CASE NUMBER: 37448 SDG NUMBER: ME00E9

Number and Type of Samples: 9 soils

Sample Numbers: ME00E9, F0-F7

Laboratory: DataChem Hrs. for Review: 18 ¹⁰⁸ ₊₂ 26

Following are our findings:

CC: Howard Pham
Region 5 TOPO
Mail Code: SRT-4J

Below is a summary of the out-of-control audits and the possible effects on the data for this case:

Nine (9) soil samples, numbered ME00E9, F0-F7, were collected on May 6-7, 2008. The lab received the samples on May 8, 2008 in good condition. All samples were analyzed for metals and cyanide. All samples were analyzed using the CLP SOW ILM05.4 analysis procedures.

Mercury analysis was performed using a Cold Vapor AA Technique. Cyanide analysis was performed using the MIDI Distillation procedure. The remaining inorganic analyses were performed using an Inductively Coupled Plasma-Atomic Emission Spectroscopy (ICP-AES) procedure.

Five prepped sample weights (LCS-S, ME00E9, ME00F1, ME00F5 and ME00F7D) were rounded incorrectly for mercury. Reported weights are listed as 0.20g; actual weights should have been reported as 0.21g. Reported results were corrected for this discrepancy. Three prepped sample weights (ME00F1, ME00F4 and ME00F6) were rounded incorrectly for ICP. Reported weights are listed as 1.00g; actual weights should have been reported as 1.01g for ME00F1 and ME00F4 and 0.99g for ME00F6. Reported results were corrected for these discrepancies.

No raw data for percent solids was provided. Percent solids data were presented on a computer generated spreadsheet.

Multiple dilutions were performed for multiple ICP elements for all samples. Some interfering elements were present at concentrations where significant interelement interferences were present. Initial values for some elements were negative where the absolute value was greater than the CRQL. Where appropriate, reported results were changed to diluted values where the level of interference was reduced. See Section 6 ICP Analysis for specifics.

1. HOLDING TIME:

The inorganic soil samples were reviewed for holding time violations using criteria developed for water samples. No defects were found.

2. CALIBRATIONS:

No defects were found for the calibration or the CRQL standard.

3. BLANKS:

The following inorganic samples are associated with an ICB/CCB or preparation blank concentration which is greater than the method detection limit (MDL). The sample result is greater than the MDL.

Hits less than the CRQL are qualified "U". The sample result is raised to the CRQL. Hits greater than the CRQL but less than 5 times the blank are qualified "U" and reported at the sample value.

Antimony
ME00F6

Mercury
ME00F4, ME00F5, ME00F6

Vanadium
ME00F0, ME00F1, ME00F2, ME00F7

The following inorganic samples are associated with a negative ICB/CCB or preparation blank concentration whose absolute value is greater than the method detection limit (MDL). The sample result is also greater than the MDL.

Hits less than 5 times the blank are qualified "J-".

Thallium
ME00F4

The following inorganic samples are associated with a negative ICB/CCB or preparation blank concentration whose absolute value is greater than the method detection limit (MDL). The sample result is also greater than the MDL. The samples are also associated with a positive ICSA (see Section 6 ICP Analysis).

Hits less than 5 times the blank AND less than 10 times the ICSA are qualified "J".

Arsenic
ME00F4

4. MATRIX SPIKE/MATRIX SPIKE DUPLICATE AND LAB CONTROL SAMPLE:

The following inorganic samples are associated with a matrix spike recovery which is high (>125%) indicating that sample results may be biased high. The post spike was not performed or not required.

Reviewed by: Stephen Connet
Date: June 6, 2008

Hits are qualified "J+"; non-detects are not qualified.

Mercury

ME00E9, ME00F0, ME00F1, ME00F2, ME00F3, ME00F7

The following inorganic samples are associated with a matrix spike recovery which is low (30-74%) indicating that sample results may be biased low. The required post spike was performed and results were greater than or equal to 75%.

Hits are qualified "J" and non-detects are qualified "UJ".

Antimony

ME00E9, ME00F0, ME00F1, ME00F2, ME00F3, ME00F4, ME00F5, ME00F6, ME00F7

Beryllium

ME00E9, ME00F0, ME00F1, ME00F2, ME00F3, ME00F4, ME00F5, ME00F6, ME00F7

Chromium

ME00E9, ME00F0, ME00F1, ME00F2, ME00F3, ME00F4, ME00F5, ME00F6, ME00F7

Selenium

ME00E9, ME00F0, ME00F1, ME00F2, ME00F3, ME00F4, ME00F5, ME00F6, ME00F7

Cyanide

ME00E9, ME00F0, ME00F1, ME00F2, ME00F3, ME00F4, ME00F5, ME00F6, ME00F7

The following inorganic samples are associated with a matrix spike recovery which is low (30-74%) indicating that sample results may be biased low. No post spike was required.

Hits are qualified "J-" and non-detects are qualified "UJ".

Silver

ME00E9, ME00F0, ME00F1, ME00F2, ME00F3, ME00F7

The following inorganic samples are associated with a matrix spike recovery which is low (30-74%) indicating that sample results may be biased low. No post spike was required.

The samples are also associated with a positive ICSA (see Section 6 ICP Analysis).

Hits are qualified "J".

Silver

ME00F4, ME00F5, ME00F6

The following inorganic samples are associated with a matrix spike recovery which is extremely low (<30%) indicating that sample results may be biased low. The required post spike was performed and results were less than 75%.

Hits are qualified "J-" and non-detects are qualified "R".

Reviewed by: Stephen Connet

Date: June 6, 2008

Thallium
ME00E9, ME00F0, ME00F3, ME00F6

The following inorganic samples are associated with a matrix spike recovery which is extremely low (<30%) indicating that sample results may be biased low. The required post spike was performed and results were less than 75%. The samples are also associated with a positive ICSA (see Section 6 ICP Analysis).

Hits are qualified "J".

Thallium
ME00F1, ME00F2, ME00F4, ME00F5, ME00F7

No defects were found for the laboratory control sample.

5. LABORATORY AND FIELD DUPLICATE:

No defects were found for the laboratory duplicate samples. No samples were identified as field duplicates.

6. ICP ANALYSIS:

The following inorganic samples are associated with an ICP serial dilution percent difference which is not in control.

Hits are qualified "J" and non-detects are qualified "UJ".

Antimony
ME00E9, ME00F0, ME00F1, ME00F2, ME00F3, ME00F4, ME00F5, ME00F6,
ME00F7

The following inorganic sample results are affected by an interference check "A" sample (ICSA) for which false positive concentration values greater than the MDL were obtained. The sample contains Al, Ca, Fe, or Mg at a level comparable to the ICSA.

Hits less than 10 times the value of the ICSA are qualified "J+"; non-detects are not qualified. Hits greater than 10 times the ICSA are not qualified.

Arsenic
ME00F5

The following inorganic sample results are affected by an interference check "A" sample (ICSA) for which false positive concentration values greater than the MDL were obtained. The sample contains Al, Ca, Fe, or Mg at a level comparable to the ICSA. The samples are also associated with a low matrix spike (see Section 4 Matrix Spike).

Hits less than 10 times the value of the ICSA are qualified "J"; non-detects are not qualified here.

Silver
ME00F4, ME00F5, ME00F6

Thallium

ME00F1, ME00F2, ME00F4, ME00F5, ME00F7

The following results are affected by an interference check "A" sample (ICSA) for which false positive concentration values greater than the MDL were obtained. The sample contains Al, Ca, Fe or Mg at a level comparable to that of the ICSA. The samples are also associated with a negative ICB/CCB or preparation blank concentration whose absolute value is greater than the MDL (see Section 3 Blanks).

Hits less than 10 times the absolute value of the ICSA AND less than 5 times the blank value are qualified "J".

Arsenic

ME00F4

The following results are affected by an interference check "A" sample (ICSA) for which false negative concentration values greater than the absolute value of the MDL were obtained. The sample contains Al, Ca, Fe or Mg at a level comparable to that of the ICSA.

Hits less than 10 times the absolute value of the ICSA are qualified "J-", non-detects are qualified "UJ". Hits greater than 10 times the ICSA are not qualified.

Vanadium

ME00F0, ME00F1, ME00F2, ME00F3, ME00F4, ME00F5, ME00F6, ME00F7

The following inorganic samples are associated with negative sample results whose absolute values are greater than the CRQL, indicating interference. The sample result was NOT changed to the diluted result because it was less the MDL and the matrix spike qualification would still be qualified "R" (see Section 4 Matrix Spike).

Non-detects are qualified "R".

Thallium

ME00F6

The following inorganic samples are associated with negative sample results whose absolute values are greater than the CRQL, indicating interference. Dilutions performed for other elements were no longer greater than the CRQL. Undiluted results would have been considered rejected "R"; reported results were changed to diluted values by this reviewer. Detection limits for reported results are elevated.

Non-detects are qualified "U".

Antimony

ME00F5

Thallium

ME00F4, ME00F5, ME00F7

7. SAMPLE RESULTS:

The following inorganic samples have analyte concentrations reported above the method detection limit (MDL) but below the quantitation limit (CRQL).

Reviewed by: Stephen Connet
Date: June 6, 2008

Results are qualified "J".

Potassium
ME00F0, ME00F1, ME00F2, ME00F3

Sodium
ME00F1, ME00F2

Thallium
ME00F4, ME00F5, ME00F7

All data, except those qualified above, are acceptable.

CADRE ILM05.4 Data Qualifier Sheet

<u>Qualifiers</u>	<u>Data Qualifier Definitions</u>
U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
J	The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
J+	The result is an estimated quantity, but the result may be biased high.
J-	The result is an estimated quantity, but the result may be biased low.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting Quality Control (QC) criteria. The analyte may or may not be present in the sample.
UJ	The analyte was analyzed for, but not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.

Analytical Results (Qualified Data)

Page 1 of 2

Case #: 37448

SDG : ME00E9

Site :

CHEMETCO

Lab

DATAC

Reviewer:

S CONNET

Date

06/09/2008

Number of Soil Samples : 9

Number of Water Samples : 0

Sample Number :	ME00E9	ME00F0	ME00F1	ME00F2	ME00F3					
Sampling Location :	X3C1	X302	X303	X304	X305					
Matrix :	Soil	Soil	Soil	Soil	Soil					
Units :	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg					
Date Sampled :	5/6/2008	5/6/2008	5/6/2008	5/6/2008	5/6/2008					
Time Sampled :										
% Sc lds :	90.2	79.4	48.5	47.6	64.9					
Dilution Factor :	1.0	1.0	1.0	1.0	1.0					
ANALYTE	Result	Flag	Result	Flag	Result	Flag	Result	Flag		
ALUMINUM	6450		7800		7790		8190		8460	
ANTIMONY	42.1	J	199	J	612	J	636	J	534	J
ARSENIC	21.6		31.9		194		206		147	
BARIUM	718		528		5750		6110		1290	
BERYLLIUM	18.0	J	20.9	J	23.1	J	22.3	J	32.2	J
CADMIUM	208		234		3500		3660		3180	
CALCIUM	129000		44000		21500		21800		29400	
CHROMIUM	64.1	J	65.8	J	51.9	J	54.8	J	73.7	J
COBALT	51.1		38.1		42.3		43.8		91.8	
COPPER	33100		145000		91700		91900		108000	
IRON	66700		49100		19600		20600		29100	
LEAD	11500		23300		120000		123000		139000	
MAGNESIUM	10300		6300		2880		2980		3360	
MANGANESE	1080		1340		944		982		1020	
MERCURY	0.78	J+	2.3	J+	27.3	J+	28.9	J+	21.0	J+
NICKEL	981		1280		3870		3940		6090	
POTASSIUM	589		491	J	257	J	294	J	291	J
SELENIUM	4.5	J	5.5	J	29.0	J	31.1	J	23.3	J
SILVER	28.6	J-	61.0	J-	80.9	J-	82.6	J-	94.3	J-
SODIUM	1260		864		529	J	536	J	1160	
THALLIUM	2.8	R	3.1	R	5.5	J	6.4	J	8.3	J-
VANADIUM	13.4		6.3	UJ	10.2	UJ	10.5	UJ	8.9	
ZINC	30700		56500		214000		223000		247000	
CYANIDE	2.8	UJ	3.1	UJ	5.2	UJ	5.3	UJ	3.9	UJ

Analytical Results (Qualified Data)

Page 2 of 2

Case #: 37448

SDG ME00E9

Site :

CHEMETCO

Lab. :

DATAC

Reviewer

S CONNET

Date

06/09/2008

Sample Number	ME00F4	ME00F5	ME00F6	ME00F7						
Sampling Location	X306	X307	X308	X309						
Matrix	Soil	Soil	Soil	Soil						
Units	mg/Kg	mg/Kg	mg/Kg	mg/Kg						
Date Sampled	5/6/2008	5/6/2008	5/6/2008	5/6/2008						
Time Sampled:										
% Solids:	97.8	97.3	96.0	98.6						
Dilution Factor:	1.0	1.0	1.0	1.0						
ANALYTE	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALUMINUM	17800	UJ	15800	UJ	7250	UJ	9550	J		
ANTIMONY	6.1	J	12.3	J	6.3	J	50.6	J		
ARSENIC	1.0	J	4.7	J+	7.4		43.3			
BARIUM	1110		934		507		2190			
BERILLIUM	109	J	78.3	J	52.3	J	33.0	J		
CADMIUM	12.0		32.2		42.9		441			
CALCIUM	9150		11600		11500		20500			
CHROMIUM	296	J	180	J	97.8	J	126	J		
COBALT	172		165		135		110			
COPPER	8910		4140		8550		38400			
IRON	251000		248000		183000		186000			
LEAD	10100		11300		8190		27900			
MAGNESIUM	3920		4060		4000		3900			
MANGANESE	2900		2770		2010		1980			
MERCURY	0.10	U	0.098	U	0.12	U	1.2	J+		
NICKEL	975		554		546		1050			
POTASSIUM	1550		1150		597		692			
SELENIUM	4.8	J	5.1	J	3.8	J	6.3	J		
SILVER	9.8	J	7.9	J	9.3	J	37.2	J-		
SODIUM	5690		5910		1830		2410			
THALLIUM	0.85	J	3.7	J	2.6	R	6.1	J		
VANADIUM	5.1	UJ	5.1	UJ	5.3	UJ	5.1	UJ		
ZINC	57200		79100		67000		81400			
CYANIDE	2.6	UJ	2.6	UJ	2.6	UJ	2.5	UJ		



JSEPA Contract Laboratory Program
Inorganic Traffic Report & Chain of Custody Record

Case No: 37448

DAS No:

SDG No: M-FDDE9

Date Shipped: 5/7/2008	Chain of Custody Record		Sampler Signature: <i>Jerry Willman</i>		
Carrier Name: UPS	Relinquished By	(Date / Time)	Received By	(Date / Time)	
Airbill: 1Z6215892210027210	<i>B. D. Willman</i>	5/7/08 1200	<i>Morrell Edward</i>	5/8/08 1:00	
Shipped to: DataChem Laboratories, Inc. 960 West LeVoy Drive Salt Lake City UT 84123 (801) 266-7700	1				
	2				
	3				
	4				
For Lab Use Only					
Lab Contract No: EPW610654					
Unit Price: <i>N/A</i>					
Transfer To: <i>ME</i> S/16/08					
Lab Contract No: <i>ME</i> S/16/08					
Unit Price: <i>N/A</i>					

INORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No/ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	ORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
ME00E4	Soil/Sediment/ Jerry Willman	L/G	ICP, Hg,CN (21)	5-303513 (Ice Only) (1)	X101	S: 5/6/2008 10:55		<i>ME</i> S/16/08
ME00E5	Soil/Sediment/ Jerry Willman	L/G	ICP, Hg,CN (21)	5-303514 (Ice Only) (1)	X102	S: 5/6/2008 11:20		
ME00E6	Soil/Sediment/ Jerry Willman	L/G	ICP, Hg,CN (21)	5-303515 (Ice Only) (1)	X103	S: 5/6/2008 12:00		
ME00E7	Soil/Sediment/ Jerry Willman	L/G	ICP, Hg,CN (21)	5-303516 (Ice Only) (1)	X104	S: 5/6/2008 12:05		
ME00E9	Waste/ Jerry Willman	L/G	ICP, Hg,CN (21)	5-303518 (Ice Only) (1)	X301	S: 5/6/2008 12:25		
ME00F0	Waste/ Jerry Willman	L/G	ICP, Hg,CN (21)	5-303519 (Ice Only) (1)	X302	S: 5/6/2008 12:30		
ME00F1	Waste/ Jerry Willman	L/G	ICP, Hg,CN (21)	5-303520 (Ice Only) (1)	X303	S: 5/6/2008 13:30		
ME00F2	Waste/ Jerry Willman	L/G	ICP, Hg,CN (21)	5-303521 (Ice Only) (1)	X304	S: 5/6/2008 13:30		
ME00F3	Waste/ Jerry Willman	L/G	ICP, Hg,CN (21)	5-303522 (Ice Only) (1)	X305	S: 5/6/2008 13:40		
ME00F4	Waste/ Jerry Willman	L/G	ICP, Hg,CN (21)	5-303523 (Ice Only) (1)	X306	S: 5/6/2008 13:50		

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: <i>H</i>	Chain of Custody Seal Number: <i>89335</i>
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Custody Seal Intact? <i>Y</i>	Shipment Iced? <i>YES</i>
ICP, Hg,CN = CLP ICP Metals, Hg, CN				

TR Number: 5-162075208-050708-0001

PR provides preliminary results. Requests for preliminary results will increase analytical costs.

Send Copy to: Sample Management Office, Attn: Heather Bauer, CSC, 15000 Conference Center Dr., Chantilly, VA 20151-3819; Phone 703/818-4200; Fax 703/818-4602



JSEPA Contract Laboratory Program
Inorganic Traffic Report & Chain of Custody Record

Date Shipped: 5/7/2008
 Carrier Name: UPS
 Airbill: 1Z0215092210027210
 Shipped to: DataChem Laboratories, Inc
 960 West LeVoy Drive
 Salt Lake City UT 84123
 (801) 266-7700

Chain of Custody Record		Sampler Signature:	
Relinquished By	(Date / Time)	Received By	(Date / Time)
1 Jerry Willman	5/7/08 12:00	Mandy Estep	5/7/08 12:00
2			
3			
4			

Case No:	37448
DAS No:	
SDG No:	ME DIREA
For Lab Use Only	
Lab Contract No:	EPA/DOE/SY
Unit Price:	All
Transfer To:	All
Lab Contract No:	5/8/08
Unit Price:	

INORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	ORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
ME00F5	Waste/ Jerry Willman	L/G	ICP, Hg,CN (21)	5-303524 (Ice Only) (1)	X307	S: 5/6/2008 14:30		
ME00F6	Waste/ Jerry Willman	L/G	ICP, Hg,CN (21)	5-303525 (Ice Only) (1)	X308	S: 5/6/2008 14:40		
ME00F7	Waste/ Jerry Willman	L/G	ICP, Hg,CN (21)	5-303526 (Ice Only) (1)	X309	S: 5/6/2008 14:45		
ME00F8	Soil/Sediment/ Jerry Willman	L/G	ICP, Hg,CN (21)	5-303527 (Ice Only) (1)	X105	S: 5/6/2008 15:10		
ME00F9	Soil/Sediment/ Jerry Willman	L/G	ICP, Hg,CN (21)	5-303528 (Ice Only) (1)	X106	S: 5/6/2008 15:15		
ME00G0	Soil/Sediment/ Jerry Willman	L/G	ICP, Hg,CN (21)	5-303529 (Ice Only) (1)	X107	S: 5/7/2008 9:20		
ME00G1	Soil/Sediment/ Jerry Willman	L/G	ICP, Hg,CN (21)	5-303530 (Ice Only) (1)	X108	S: 5/7/2008 9:30		

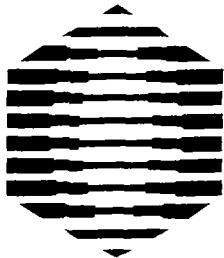
Shipment for Case Complete? N	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt:	Chain of Custody Seal Number:
Analysis Key: L = Low, M = Low/Medium, H = High	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Custody Seal Intact? <input checked="" type="checkbox"/>	Shipment Iced? <input checked="" type="checkbox"/>

ICP, Hg,CN = CLP ICP Metals, Hg, CN

TR Number: 5-162075208-050708-0001

PR provides preliminary results. Requests for preliminary results will increase analytical costs.

Send Copy to: Sample Management Office, Attn: Heather Bauer, CSC, 15000 Conference Center Dr., Chantilly, VA 20151-3819; Phone 703/818-4200; Fax 703/818-4602



**DATA
CHEM**
LABORATORIES, INC.

SDG NARRATIVE

Case #: 37448

SDG#: ME00E9

Contract #: EP-W-06-054

DCL Set (D#): 8129031

May 28, 2008

General Information

The nine samples in this SDG were analyzed by methodologies contained in ILM05.4. All concentration, analytical, and method qualifiers are defined in the SOW.

Holding Times

All samples were prepared and analyzed within method required holding times.

Initial and Continuing Calibration

All initial and continuing calibration verification and blank analyses were performed within the designated frequency and recoveries of the verifications and concentrations of the blanks met method acceptance criteria.

Interference Check Sample Analysis

Results for the interference check samples met method acceptance criteria.

Preparation Blanks

The absolute values of all analyte concentrations in the preparation blanks were lower than the Contract Required Quantitation Limits.

Laboratory Control Sample Analysis

Results for the analysis of the LCS met method acceptance criteria.

Matrix Spike Analysis

All matrix spike recoveries were within the limits of 75-125% with the exceptions of antimony, beryllium, chromium, mercury, selenium, silver, thallium and cyanide.

Matrix Duplicate Analysis

All matrix duplicate results met method criteria with the exceptions of antimony, copper and nickel.

Serial Dilution

ICP-AES Serial Dilution results met method acceptance criteria with the exception of antimony.

Miscellaneous Comments

All calibration data is linear, please see raw data.

Cooler temps were at 4 °C at time of receipt.

Issues – The TR-COC did not designate laboratory QC, we selected sample ME00F7 for this SDG.

Example Equations

$$\text{Method HS1: } C \times DF \times \frac{V_f}{W_i} \div S = \text{Concentration}(\mu\text{g/g}) = \text{Concentration}(\text{mg/Kg})$$

$$\text{Method CS1: } C \times DF \times \frac{Vf}{Wi} \div S = \text{Concentration} (\mu\text{g/g}) = \text{Concentration (mg/Kg)}$$

$$\text{Method DS2: } C \times DF \times \frac{Vf}{Wi} \div S = \text{Concentration} (\mu\text{g/g}) = \text{Concentration (mg/Kg)}$$

C = Instrument value in $\mu\text{g/L}$ (The average of all replicate integrations).

Vf = Final digestion volume (L)

Wi = Initial digestion Weight (g)

DF = Dilution Factor

S = % Solids/100

Lab Name: DATACHEM LABORATORIESContract: EP-W-06-054Lab Code: DATA Case No.: 37448NRAS No.: _____ SDG No.: ME00E9SOW No.: ILM05.4

EPA Sample No.

Lab Sample ID

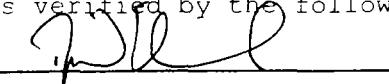
ME00E98129031001ME00F08129031002ME00F18129031003ME00F28129031004ME00F38129031005ME00F48129031006ME00F58129031007ME00F68129031008ME00F78129031009ME00F7D8129031011ME00F7S8129031010

ICP-AES ICP-MS

Were ICP-AES and ICP-MS Interelement corrections applied? (Yes/No) YES NOWere ICP-AES and ICP-MS background corrections applied? (Yes/No) YES NOIf yes - were raw data generated before application of background corrections? (Yes/No) NO NO

Comments:

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this harccpy data package and in the computer-readable data submitted on diskette (or via an alternate means of electronic transmission, if approved in advance by USEPA) has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Name: Neil EdwardsDate: 05/28/2008Title: Chemist

3-IN
BLANKS

Lab Name: DATA CHEM LABORATORIES

Contract: EP-W-06-054

Lab Code: DATAC Case No.: 37448 NRAS No.: SDG No.: ME00E9

Preparation Blank Matrix (soil/water): SOIL

Preparation Blank Concentration Units (ug/L or mg/kg): mg/kg

3-IN
BLANKS

Lab Name: DATACHEM LABORATORIES

Contract: EP-W-06-054

Lab Code: DATAc Case No.: 37448 NRAS No.: SDG No.: ME00E9

Preparation Blank Matrix (soil/water): SOIL

Preparation Blank Concentration Units (ug/L or mg/kg): mg/kg

3-IN
BLANKS

Lab Name: DATA CHEM LABORATORIES

Contract: EP-W-06-054

Lab Code: DATAC Case No.: 37448 NRAS No.: _____ SDG No.: ME00E9

Preparation Blank Matrix (soil/water): SOIL

Preparation Blank Concentration Units (ug/L or mg/kg): mg/kg

3-IN
BLANKS

Lab Name: DATA CHEM LABORATORIES

Contract: EP-W-06-054

Lab Code: DATAc Case No.: 37448 NRAS No.: SDG No.: ME00E9

Preparation Blank Matrix (soil/water): SOIL

Preparation Blank Concentration Units (ug/L or mg/kg): mg/kg

3-IN
BLANKS

Lab Name: DATA CHEM LABORATORIES

Contract: EP-W-06-054

Lab Code: DATAC Case No.: 37448 NRAS No.: SDG No.: ME00E9

Preparation Blank Matrix (soil/water): SOIL

Preparation Blank Concentration Units (ug/L or mg/kg): mg/kg

3-IN
BLANKS

Lab Name: DATA CHEM LABORATORIES

Contract: EP-W-06-054

Lab Code: DATA C Case No.: 37448 NRAS No.: _____ SDG No.: ME0CE9

Preparation Blank Matrix (soil/water): SOIL

Preparation Blank Concentration Units (ug/L or mg/kg): mg/kg

3-IN
BLANKS

Lab Name: DATA CHEM LABORATORIES

Contract: EP-W-06-054

Lab Code: DATA C Case No.: 37448 NRAS No.: SDG No.: ME00E9

Preparation Blank Matrix (soil/water): SOIL

Preparation Blank Concentration Units (ug/L or mg/kg): mg/kg

USEPA - CLP

4A-IN

Lab Name: DATACHEM LABORATORIES

Contract: EP-W-06-054

Lab Code: DATA C Case No.: 37448 NRAS No.: SDG No.: ME00E9

ICP-AES Instrument ID: ICP07

ICS Source: EPA(1206)

Concentration Units: ug/L

USEPA - CLP

4A-IN

Last Name: DATAChem LABORATORIES

Contract: EP-W-06-054

Lab. Code: DATA C Case No.: 37448 NRAS No.: _____ SDG No.: ME00E9

ICP-AES Instrument ID: ICP07

ICS Source: EPA(1206)

Concentration Units: ug/L

USEPA - CLP

4A-IN
ICP-AES INTERFERENCE CHECK SAMPLE

Lab Name: DATA CHEM LABORATORIES

Contract: EP-W-06-054

Lab Code: DATA C Case No.: 37448 NRAS No.: _____ SDG No.: ME00E9

ICP-AES Instrument ID: ICP07 ICS Source: EPA(1206)

Concentration Units: ug/L

ICS Source: EPA(1206)

Concentration Units: ug/L

4A-IN

Lab Name: DATACHEM LABORATORIES

Contract: EP-W-06-054

Lab Code: DATA C Case No.: 37448 NRAS No.: SDG No.: ME00E9

ICP-AES Instrument ID: ICP07

ICS Source: EPA(1206)

Concentration Units: ug/L

4A-IN

Lab Name: DATACHEM LABORATORIES

Contract: EP-W-06-054

Lab Code: DATAC Case No.: 37448 NRAS No.: SDG No.: ME00E9

NRAS No.: SDG No.: ME00E9

ICP-AES Instrument ID: ICP07

ICS Source: EPA(1206)

Concentration Units: ug/L

USEPA - CLP

4A-IN
ICP-AES INTERFERENCE CHECK SAMPLE

Lab Name: DATA CHEM LABORATORIES

Contract: EP-W-06-054

Lab. Code: DATA C Case No.: 37448 NRAS No.: SDG No.: ME00E9

ICP-AES Instrument ID: ICP07 ICS Source: EPA(1206)

Concentration Units: ug/L

ICS Source: EPA(1206)

True

4A-IN

Lab Name: DATACHEM LABORATORIES

Contract: EP-W-06-054

Lab Code: DATAc Case No.: 37448 NRAS No.: -- SDG No.: MEO0E9

ICP-AES Instrument ID: ICP07

ICS Source: EPA(1206)

Concentration Units: ug/L

5A-IN

MATRIX SPIKE SAMPLE RECOVERY

EPA Sample No.

ME00F7S

Lab Name: DATACHEM LABORATORIES Contract: EP-W-06-054Lab Code: DATAC Case No.: 37448 NRAS No.: _____ SDG No.: ME00E9Matrix: (soil/water) SOIL Level: (low/med) LOW% Solids for Sample: 98.6Concentration Units (ug/L or mg/kg dry weight): mg/kg

Analyte	Control Limit %R	Spiked Sample Result (SSR) C	Sample Result (SR) C	Spike Added (SA)	%R	Q	M
Aluminum							NR
Antimony	75-125	64.1494	50.5997	20.28	67	N	P
Arsenic		49.1792	43.3276	8.11	72		P
Barium		2271.8053	2190.3651	405.68	20		P
Beryllium	75-125	39.3249	33.0284	10.14	62	N	P
Cadmium		409.7194	441.0784	10.14	-309		P
Calcium							NR
Chromium	75-125	153.7424	126.4571	40.57	67	N	P
Cobalt	75-125	225.9162	110.0676	101.42	114		P
Copper		42790.3990	38371.1968	50.71	8715		P
Iron							NR
Lead		27265.0439	27884.3813	4.06	-15255		P
Magnesium							NR
Manganese		1866.2272	1977.0791	101.42	-109		P
Mercury	75-125	1.9760	1.2391	0.51	144	N	CV
Nickel		1275.2874	1049.7972	101.42	222		P
Potassium							NR
Selenium	75-125	13.4689	6.2709	10.14	71	N	P
Silver	75-125	43.8262	37.2224	10.14	65	N	P
Sodium							NR
Thallium	75-125	4.8711	2.5355	U	10.14	48	N
Vanadium	75-125	99.4604	0.1583	J	101.42	98	
Zinc		72518.2556	81419.5406		101.42	-8777	P
Cyanide	75-125	1.7670	J	2.5355	U	5.07	35
							N AS

Comments:

5B-IN

POST-DIGESTION SPIKE SAMPLE RECOVERY

EPA Sample No.

ME00E7A

Lab Name: DATA CHEM LABORATORIES Contract: EP-W-06-054

Lab Code: DATA C Case No.: 37448 NRAS No.: SDG No.: MEOCE9

Matrix: (scil/water) SOIL Level: (low/med) LOW

% Solids for Sample: 98.6

Level: (low/med) LOW

Concentration Units (µg/L or mg/kg dry weight): µg/L

Analyte	Control Limit %R	Spiked Sample Result (SSR) C	Sample Result (SR) C	Spike Added (SA)	%R	Q	M
Aluminum							NR
Antimony		1559.27	498.91	998.00	106		P
Arseric							NR
Barium							NR
Beryllium		904.00	325.66	651.00	89		P
Cadmium							NR
Calcium							NR
Chromium		4511.67	1246.87	2490.00	131		P
Cobalt							NR
Copper							NR
Iron							NR
Lead							NR
Magnesium							NR
Manganese							NR
Mercury							NR
Nickel							NR
Potassium							NR
Selenium		231.46	61.83	124.00	137		P
Silver							NR
Sodium							NR
Thallium		25.00	U	25.00	U	50.00	0
Vanadium							NR
Zinc							NR
Cyanide		107.45	50.00	U	100.00	107	AS

Comments:

6-IN
DUPLICATES

EPA Sample No.

ME00F7D

Lab Name: DATACHEM LABORATORIES Contract: EP-W-06-054

Lab Code: DATA C Case No.: 37448 NRAS No.: SDG No.: ME00E9

Matrix: (soil/water) SOIL Level: (low/med) LOW

% Solids for Sample: 98.6 % Solids for Duplicate: 98.7

Concentration Units (ug/L or mg/kg dry weight): mg/kg

8-IN

ICP-AES and ICP-MS SERIAL DILUTIONS

EPA Sample No.

ME00F7L

Lab Name: DATA CHEM LABORATORIES Contract: EP-W-06-054

Lab Code: DATA_C Case No.: 37448 NRAS No.: SDG No.: ME00E9

Matrix: (soil/water) SOIL Level: (low/med) LOW

Concentration Units: ug/L

Level: (low/med) LOW

9-IN
METHOD DETECTION LIMITS (ANNUALLY)

Lab Name: DATACHEM LABORATORIESContract: EP-W-06-054Lab Code: DATAC Case No.: 37448 NRAS No.: _____ SDG No.: ME00E9Instrument Type: CVInstrument ID: AACV01Date: 01/11/2008Preparation Method: CS1Concentration Units (ug/L or mg/kg): mg/kg

Analyte	Wavelength /Mass	CRQL	MDL
Aluminum			
Antimony			
Arsenic			
Barium			
Beryllium			
Cadmium			
Calcium			
Chromium			
Cobalt			
Copper			
Iron			
Lead			
Magnesium			
Manganese			
Mercury	253.70	0.1	0.012
Nickel			
Potassium			
Selenium			
Silver			
Sodium			
Thallium			
Vanadium			
Zinc			
Cyanide			

Comments:

9-IN
METHOD DETECTION LIMITS (ANNUALLY)

Lab Name: DATACHEM LABORATORIESContract: EP-W-06-054Lab Code: DATA Case No.: 37448 NRAS No.: _____ SDG No.: ME00E9Instrument Type: PInstrument ID: ICP07Date: 01/12/2008Preparation Method: NP1Concentration Units (ug/L or mg/kg): ug/L

Analyte	Wavelength /Mass	CRQL	MDL
Aluminum	308.22	200	20.0
Antimony	206.83	60	1.8
Arsenic	189.04	10	1.5
Barium	455.40	200	0.33
Beryllium	313.11	5.0	0.089
Cadmium	214.44	5.0	0.084
Calcium	317.93	5000	5.9
Chromium	205.55	10	0.73
Cobalt	228.62	50	0.32
Copper	324.75	25	2.6
Iron	259.94	100	9.0
Lead	220.35	10	0.94
Magnesium	279.08	5000	26.7
Manganese	257.61	15	0.26
Mercury			
Nickel	231.60	40	1.7
Potassium	766.49	5000	80.4
Selenium	196.09	35	2.6
Silver	328.07	10	0.28
Sodium	589.59	5000	41.6
Thallium	190.86	25	0.77
Vanadium	292.40	50	0.40
Zinc	206.20	60	2.7
Cyanide			

Comments:

9-IN
METHOD DETECTION LIMITS (ANNUALLY)

Lab Name: DATACHEM LABORATORIESContract: EP-W-06-054Lab Code: DATA Case No.: 37448 NRAS No.: _____ SDG No.: ME00E9Instrument Type: PInstrument ID: ICP07Date: 01/05/2008Preparation Method: HS1Concentration Units (ug/L or mg/kg): mg/kg

Analyte	Wavelength /Mass	CRQL	MDL
Aluminum	308.22	20	4.1
Antimony	206.83	6.0	0.33
Arsenic	189.04	1.0	0.25
Barium	455.40	20	0.12
Beryllium	313.11	0.5	0.012
Cadmium	214.44	0.5	0.011
Calcium	317.93	500	10.7
Chromium	205.55	1.0	0.46
Cobalt	228.62	5.0	0.064
Copper	324.75	2.5	0.45
Iron	259.94	10	4.1
Lead	220.35	1.0	0.22
Magnesium	279.08	500	5.8
Manganese	257.61	1.5	0.062
Mercury			
Nickel	231.60	4.0	0.33
Potassium	766.49	500	4.2
Selenium	196.09	3.5	0.26
Silver	328.07	1.0	0.047
Sodium	589.59	500	3.7
Thallium	190.86	2.5	0.17
Vanadium	292.40	5.0	0.063
Zinc	206.20	6.0	0.34
Cyanide			

Comments:

9-IN
METHOD DETECTION LIMITS (ANNUALLY)

Lab Name: DATACHEM LABORATORIESContract: EP-W-06-054Lab Code: DATAAC Case No.: 37448 NRAS No.: _____ SDG No.: ME00E9Instrument Type: ASInstrument ID: WET01Date: 01/10/2008Preparation Method: NP1Concentration Units (ug/L or mg/kg): ug/L

Analyte	Wavelength /Mass	CRQL	MDL
Aluminum			
Antimony			
Arsenic			
Barium			
Beryllium			
Cadmium			
Calcium			
Chromium			
Cobalt			
Copper			
Iron			
Lead			
Magnesium			
Manganese			
Mercury			
Nickel			
Potassium			
Selenium			
Silver			
Sodium			
Thallium			
Vanadium			
Zinc			
Cyanide	570.00	10	1.6

Comments:

9-IN
METHOD DETECTION LIMITS (ANNUALLY)

Lab Name: DATACHEM LABORATORIESContract: EP-W-06-054Lab Code: DATA Case No.: 37448 NRAS No.: _____ SDG No.: ME00E9Instrument Type: ASInstrument ID: WET01Date: 01/09/2008Preparation Method: DS2Concentration Units (ug/L or mg/kg): mg/kg

Analyte	Wavelength /Mass	CRQL	MDL
Aluminum			
Antimony			
Arsenic			
Barium			
Beryllium			
Cadmium			
Calcium			
Chromium			
Cobalt			
Copper			
Iron			
Lead			
Magnesium			
Manganese			
Mercury			
Nickel			
Potassium			
Selenium			
Silver			
Sodium			
Thallium			
Vanadium			
Zinc			
Cyanide	570.00	2.5	0.91

Comments:

USEPA - CLP

12-IN
PREPARATION LOG

Lab Name: DATA CHEM LABORATORIES

Contract: EP-W-06-054

Lab Code: DATA C Case No.: 37448 NRAS No.: SDG No.: ME00E9

Preparation Method: CS1

12-IN
PREPARATION LOG

Lab Name: DATA CHEM LABORATORIES

Contract: EP-W-06-054

Lab Code: DATAC Case No.: 37448 NRAS No.: _____ SDG No.: ME00E9

Preparation Method: DS2

USEPA - CLP

12-IN
PREPARATION LOG

Lab Name: DATA CHEM LABORATORIES

Contract: EP-W-06-054

Lab Code: DATA C Case No.: 37448 NRAS No.: SDG No.: ME00E9

Preparation Method: HS1

13-IN
ANALYSIS RUN LOGLab Name: DATAChem LABORATORIESContract: EP-W-06-054Lab Code: DATA Case No.: 37448NRAS No.: _____ SDG No.: ME00E9Instrument ID: ICP07Analysis Method: PStart Date: 05/22/2008End Date: 05/22/2008

EPA Sample No.	E/F	Time	Analytes																									
			A L	S B	A S	B A	B E	C D	C A	C R	C O	F U	P E	M B	M G	H N	N G	K I	S E	A G	A N	T G	V A	Z L	C N			
S0	1.0	0913	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
S1500	1.0	0918			X		X	X						X					X	X	X	X	X					
S10000	1.0	0923	X		X				X	X	X				X	X		X	X					X	X			
S50000	1.0	0928	X						X				X	X				X		X					X	X		
ICV	1.0	0933	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
ICB	1.0	0938	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
CRII	1.0	0943	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
ICSAI	1.0	0948	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
ICSAIB	1.0	0953	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
CCV	1.0	0957	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
CCE	1.0	1002	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
PBS	1.0	1007	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
LCSS	1.0	1012	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
ME00F7	1.0	1017	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
ME00F7S	1.0	1023		X	X	X	X	X										X		X	X	X	X	X	X	X		
ME00F7D	1.0	1028	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
ME00F7L	5.0	1033	X	X	X	X	X	X	X	X	X	X				X	X		X	X	X	X	X	X	X	X		
ME00E9	1.0	1038	X	X	X	X	X	X	X	X	X	X				X	X		X	X	X	X	X	X	X	X		
ME00F0	1.0	1043	X	X	X	X	X	X	X	X	X	X				X	X		X	X	X	X	X	X	X	X		
ME00F1	1.0	1048	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
ME00F2	1.0	1054	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
CCV2	1.0	1059	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
CCB2	1.0	1104	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
ME00F3	1.0	1109	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
ME00F4	1.0	1114	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
ME00F5	1.0	1119	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
ME00F6	1.0	1148	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
ME00F7A	1.0	1153	X			X			X																	X		
ZZZZZZ	1.0	1158																										
CRIF	1.0	1203	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
ICSAF	1.0	1208	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
ICSABF	1.0	1213	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
CCV3	1.0	1218	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
CCB3	1.0	1223	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
ME00E9	4.0	1228							X					X														
ME00F0	2.0	1233											X															

USEPA - CLP

13-IN
ANALYSIS RUN LOG

Lab Name: DATACHEM LABORATORIES

Contract: EP-W-06-054

Lab Code: DATA Case No.: 37448

NRAS No.: SDG No.: ME00E9

Instrument ID: ICP07

Analysis Method: P

Start Date: 05/22/2008

End Date: 05/22/2008

13-IN
ANALYSIS RUN LOGLab Name: DATACHEM LABORATORIESContract: EP-W-06-054Lab Code: DATAAC Case No.: 37448NRAS No.: _____ SDG No.: ME00E9Instrument ID: ICP07Analysis Method: PStart Date: 05/22/2008End Date: 05/22/2008

EPA Sample No.	D/F	Time	Analytes																								
			A L	S B	A S	B A	B E	C D	C A	C R	C O	F U	P E	M B	M G	H N	N G	K I	S E	A G	A L	T L	V A	Z N	C N		
S0	1.0	1546						X				X														X	
S1500	1.0	1551								X																	
S10000	1.0	1556													X												X
S50000	1.0	1601																									
ICV2	1.0	1606							X			X															X
ICB2	1.0	1611								X		X															X
CRII2	1.0	1616								X		X															X
ICSAI2	1.0	1621	X							X	X		X	X		X											X
ICSAIB2	1.0	1626	X							X	X		X	X		X											X
CCV6	1.0	1631							X			X															X
CCE6	1.0	1635						X				X															X
PBS	1.0	1640										X															X
LCSS	1.0	1645										X															X
ME00E9	40.	1650										X		X													X
ME00F0	50.	1655										X															X
ME00F1	50.	1700																									
ME00F2	50.	1705																									
ME00F3	50.	1710												X													
ME00F4	100	1715																									X
ME00F5	100	1720																									X
ME00F6	100	1725																									X
CCV7	1.0	1730							X			X															X
CCB7	1.0	1734							X			X															X
ME00F7	100	1739																									X
ME00F7D	100	1744																									X
ME00F7L	500	1749																									X
ME00E9	10.	1754																									
ME00F1	20.	1759												X													
ME00F2	20.	1804												X													
ME00F3	20.	1809													X												
CRIE3	1.0	1814								X			X														X
ICSAF3	1.0	1819	X							X	X		X	X		X										X	
ICSAFB3	1.0	1824	X							X	X		X	X		X										X	
CCV8	1.0	1829								X			X														X
CCB8	1.0	1833								X			X														X
ME00F7	20.	1838										X															

13-IN
ANALYSTS RUN LOG

Lab Name: DATACHEM LABORATORIES

Contract: EP-W-06-054

Lab Code: DATA C Case No.: 37448

NRAS No.: SDG No.: ME00E9

Instrument ID: ICP07

Analysis Method: P

Start Date: 05/22/2008

End Date: 05/22/2008

13-IN
ANALYSIS RUN LOGLab Name: DATAChem LABORATORIESContract: EP-W-C6-054Lab Code: DATACase No.: 37448

NRAS No.: _____

SDG No.: ME00E9Instrument ID: ICP07Analysis Method: PStart Date: 05/23/2008End Date: 05/23/2008

EPA Sample No.	D/F	Time	Analytes																								
			A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	K S	S E	A G	A L	T L	V Z	Z N	C C N	
S0	1.0	1201										X		X												X	
S1500	1.0	1206															X										
S10000	1.0	1210											X														X
S50000	1.0	1215																									
ICV3	1.0	1220											X		X												X
ICE3	1.0	1225											X		X												X
CRII3	1.0	1230											X		X												X
ICSAI3	1.0	1235	X									X		X	X	X	X									X	
ICSABE3	1.0	1240	X									X		X	X	X	X									X	
CCV12	1.0	1245											X		X												X
CCB12	1.0	1250											X		X												X
ME00F1	100	1255																									X
ME00F2	100	1300																									X
ME00F3	200	1305																									X
ZZZZZ	1.0	1310																									
CRIF6	1.0	1315											X		X												X
ICSAF6	1.0	1320	X									X		X	X	X	X									X	
ICSABF6	1.0	1325	X									X		X	X	X	X									X	
CCV13	1.0	1330											X		X												X
CCB13	1.0	1334											X		X												X
PBS	1.0	1339																X									
LCSS	1.0	1344																	X								
ME00F4	4.0	1349																		X							
ME00F5	4.0	1354																		X							
ME00F6	4.0	1359																		X							
ME00F6	2.0	1404																		X							
ME00E9	4.0	1409																		X							
MECOFO	5.0	1414																		X							
ME00F1	20.	1419																		X							
ZZZZZ	1.0	1424																									
CCV14	1.0	1429												X		X											X
CCB14	1.0	1434												X		X											X
ME00F2	20.	1439																		X							
ME00F3	20.	1444																		X							
ME00F7	10.	1449																		X							
ME00F7D	10.	1454																		X							

13-IN
ANALYSIS RUN LOG

Lab Name: DATA CHEM LABORATORIES

Contract: EP-W-06-054

Lab Code: DATA C Case No.: 37448

NRAS No.: SDG No.: ME00E9

Instrument ID: ICP07

Analysis Method: P

Start Date: 05/23/2008

End Date: 05/23/2008

13-IN
ANALYSIS RUN LOG

Lab Name: DATA CHEM LABORATORIES

Contract: EP-W-06-054

Lab Code: DATAC Case No.: 37448

NRAS No.: _____ SDG No.: ME00E9

Instrument ID: ICP07

Analysis Method: P

Start Date: 05/27/2008

End Date: 05/27/2008

13-IN
ANALYSIS RUN LOGLab Name: DATAChem LABORATORIESContract: EP-W-06-054Lab Code: DATAcCase No.: 37448NRAS No.: _____ SDG No.: ME00E9Instrument ID: AACV01Analysis Method: CVStart Date: 05/21/2008End Date: 05/21/2008

EPA Sample No.	D/F	Time	Analytes																								
			A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	K S	S E	A G	A N	T A	V L	Z N	C N	
S0	1.0	1044																	X								
S0.2	1.0	1045																	X								
S0.5	1.0	1047																	X								
S1.0	1.0	1048																	X								
S5.0	1.0	1050																	X								
S10	1.0	1051																	X								
ICV	1.0	1053																	X								
ICB	1.0	1054																	X								
CR1	1.0	1056																	X								
CCV	1.0	1057																	X								
CCB	1.0	1059																	X								
PBS	1.0	1100																	X								
LCSS	1.0	1102																	X								
ME00E9	1.0	1103																	X								
ME00FC	1.0	1104																	X								
ME00F1	1.0	1106																	X								
ME00F2	1.0	1107																	X								
ME00F3	1.0	1109																	X								
CCV2	1.0	1110																	X								
CCB2	1.0	1112																	X								
ME00F4	1.0	1113																	X								
ME00F5	1.0	1115																	X								
ME00F6	1.0	1116																	X								
ME00F7	1.0	1118																	X								
ME00F7S	1.0	1119																	X								
ME00F7D	1.0	1121																	X								
CR1F	1.0	1122																	X								
CCV3	1.0	1124																	X								
CCB3	1.0	1125																	X								
ME00F1	10.	1131																	X								
ME00F2	10.	1132																	X								
ME00F3	10.	1134																	X								
CR1F2	1.0	1135																	X								
CCV4	1.0	1137																	X								
CCB4	1.0	1138																	X								

13-IN
ANALYSIS RUN LOGLab Name: DATACHEM LABORATORIESContract: EP-W-06-054Lab Code: DATACCase No.: 37448NRAS No.: _____ SDG No.: ME00E9Instrument ID: WET01Analysis Method: ASStart Date: 05/20/2008End Date: 05/20/2008

EPA Sample No.	D/F	Time	Analytes																								
			A L	S B	A S	B A	B E	C D	C A	C R	C O	F U	P E	M B	M G	H N	N G	K I	S E	A G	N G	T A	V L	Z N	C N		
S0	1.0	1056																								X	
S10	1.0	1059																								X	
S50	1.0	1059																								X	
S100	1.0	1100																								X	
S200	1.0	1100																								X	
S300	1.0	1103																								X	
S400	1.0	1103																								X	
ICV	1.0	1104																								X	
ICB	1.0	1104																								X	
CRII	1.0	1107																								X	
CCV1	1.0	1107																								X	
CCB1	1.0	1108																								X	
MIDRANGE	1.0	1108																								X	
LCSS	1.0	1111																								X	
PBS	1.0	1111																								X	
ME00E9	1.0	1112																								X	
ME00F0	1.0	1113																								X	
ME00F1	1.0	1115																								X	
ME00F2	1.0	1116																								X	
ME00F3	1.0	1117																								X	
ME00F4	1.0	1117																								X	
CCV2	1.0	1120																								X	
CCE2	1.0	1120																								X	
MEC0F5	1.0	1121																								X	
MEC0F6	1.0	1121																								X	
MEC0F7	1.0	1124																								X	
MEC0F7D	1.0	1124																								X	
MEC0F7S	1.0	1125																								X	
CRIF	1.0	1125																								X	
CCV3	1.0	1128																								X	
CCE3	1.0	1128																								X	
ME00F7A	1.0	1204																								X	
CRIF2	1.0	1205																								X	
CCV4	1.0	1206																								X	
CCB4	1.0	1206																								X	

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION V

ESD Central Regional Laboratory
Data Tracking Form for Contract SamplesSample Delivery Group: MEDDE9 CERCLIS No: JLD048843809Case No: 37448 Site Name/Location: Chemetco (JL)Contractor or EPA Lab: DtAChem Data User: IEPANo. of Samples: 9 Date Sampled or Date Received: 30 May, 08Have Chain-of-Custody records been received? Yes No _____Have traffic reports or packing lists been received? Yes No _____

If no, are traffic report or packing list numbers written on the Chain-of-Custody Record?

Yes _____ No _____

If no, which traffic report or packing list numbers are missing?

_____Are basic data forms in? Yes No _____No of samples claimed: 9 No. of samples received: _____Received by: polaris Date: 30 May 08Received by LSSS: polaris Date: 3 June 08Review started: 6-3-08 Reviewer Signature: [Signature]Total time spent on review: 7-1-08 26 Date review completed: 6-9-08Copied by: A. C. Harvey Date: 7-7-08Mailed to user by: Cheryl Mallie Date: 7/7/08**DATA USER:**

Please fill in the blanks below and return this form to:

Sylvia Griffin, Data Mgmt. Coordinator, Region V, ML-10C

Data received by: _____ Date: _____

Data review received by: _____ Date: _____

Inorganic Data Complete

[] Suitable for Intended Purpose [] if OK

Organic Data Complete

[] Suitable for Intended Purpose [] if OK

Dioxin data Complete

[] Suitable for Intended Purpose [] if OK

SAS Data Complete

[] Suitable for Intended Purpose [] if OK**PROBLEMS:** Please indicate reasons why data are not suitable for your uses.

Received by Data Mgmt. Coordinator for Files. Date: _____